

# ***FY 1998 Technology Deployment in Environmental Management***

## ***Solutions of the Future at the INEEL***

Site Technology Coordination Group  
U.S. Department of Energy, Idaho Operations Office



**INEEL**



## **Dual-Arm Work Platform (DAWP)**

**Problem:** A platform was required for deployment of commercial manipulator arms for telerobotic disassembly of the ANL-E CP-5 Research Reactor.

**Baseline Technology:** Worker operation of a single robotic arm within a high contamination and high radiation area.

**Innovative Technology:** The INEEL-developed DAWP provides a platform for cooperative operation of a pair of manipulator arms which were deployed by crane within the CP-5 bioshield (3m diameter).

**Comparison:** Use of DAWP reduced worker risk and allowed remote disassembly of the CP-5 reactor internals. DAWP maintenance was performed in adjacent areas with reduced worker risk.

**Cost Savings:** Deployment of the robotics system was estimated to reduce costs by \$166 K, as well as reduce worker exposure by an estimated 15 person-rem.

